

## NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 8-10-01 are:

A.  approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
 B.  objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

<p>1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:      Black ink. Color.  <input type="checkbox"/> Color drawings are not acceptable until petition is granted.      Fig(s) _____</p> <p>2. PHOTOGRAPHS. 37 CFR 1.84(b)  <input type="checkbox"/> 1 full-tone set is required. Fig(s) _____  <input type="checkbox"/> Photographs may not be mounted. 37 CFR 1.84(e)  <input type="checkbox"/> Poor quality (half-tone). Fig(s) _____</p> <p>3. TYPE OF PAPER. 37 CFR 1.84(e)  <input type="checkbox"/> Paper not flexible, strong, white, and durable.      Fig(s) _____  <input type="checkbox"/> Erasures, alterations, overwritings, interlinings, folds, copy machine marks not accepted. Fig(s) _____  <input type="checkbox"/> Mylar, velum paper is not acceptable (too thin). Fig(s) _____</p> <p>4. SIZE OF PAPER. 37 CFR 1.84(j): Acceptable sizes:  <input type="checkbox"/> 21.0 cm by 29.7 cm (DIN size A4)  <input type="checkbox"/> 21.6 cm by 27.9 cm (8 1/2 x 11 inches)  <input type="checkbox"/> All drawing sheets not the same size.      Sheet(s) _____  <input type="checkbox"/> Drawings sheets not an acceptable size. Fig(s) _____</p> <p>5. MARGINS. 37 CFR 1.84(g): Acceptable margins:      Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm      SIZE: A4 Size      Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm      SIZE: 8 1/2 x 11  <input type="checkbox"/> Margins not acceptable. Fig(s) _____      Top (T) _____ Left (L) _____      Right (R) _____ Bottom (B) _____</p> <p>6. VIEWS. 37 CFR 1.84(h)      REMINDER: Specification may require revision to correspond to drawing changes.      Partial views. 37 CFR 1.84(h)(2)  <input type="checkbox"/> Brackets needed to show figure as one entity.      Fig(s) _____  <input type="checkbox"/> Views not labeled separately or properly.      Fig(s) _____  <input type="checkbox"/> Enlarged view not labeled separately or properly.      Fig(s) _____</p> <p>7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)  <input type="checkbox"/> Hatching not indicated for sectional portions of an object.      Fig(s) _____  <input type="checkbox"/> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____</p>	<p>8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)  <input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____</p> <p>9. SCALE. 37 CFR 1.84(k)  <input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.      Fig(s) _____</p> <p>10. CHARACTER OF LINES, NUMBERS, &amp; LETTERS. 37 CFR 1.84(l)  <input checked="" type="checkbox"/> Lines, numbers &amp; letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) <u>4</u></p> <p>11. SHADING. 37 CFR 1.84(m)  <input type="checkbox"/> Solid black areas pale. Fig(s) _____  <input type="checkbox"/> Solid black shading not permitted. Fig(s) _____  <input type="checkbox"/> Shade lines, pale, rough and blurred. Fig(s) _____</p> <p>12. NUMBERS, LETTERS, &amp; REFERENCE CHARACTERS. 37 CFR 1.84(p)  <input type="checkbox"/> Numbers and reference characters not plain and legible.      Fig(s) <u>1-4</u>  <input type="checkbox"/> Figure legends are poor. Fig(s) <u>1</u>  <input type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)      Fig(s) _____  <input type="checkbox"/> English alphabet not used. 37 CFR 1.84(p)(2)      Figs _____  <input type="checkbox"/> Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)      Fig(s) _____</p> <p>13. LEAD LINES. 37 CFR 1.84(q)  <input type="checkbox"/> Lead lines cross each other. Fig(s) _____  <input type="checkbox"/> Lead lines missing. Fig(s) _____</p> <p>14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i)  <input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____</p> <p>15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  <input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____</p> <p>16. CORRECTIONS. 37 CFR 1.84(w)  <input type="checkbox"/> Corrections not made from prior PTO-948 dated _____</p> <p>17. DESIGN DRAWINGS. 37 CFR 1.152  <input type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____  <input type="checkbox"/> Solid black shading not used for color contrast.      Fig(s) _____</p>
<p><b>COMMENTS</b></p> <div style="border: 1px solid black; height: 40px; margin-top: 5px;"></div>	

REVIEWER J. CHASE DATE 12-2-02 TELEPHONE NO. 703 305 8410

ATTACHMENT TO PAPER NO. 20